## COMPEX NetPassage Series

# NetPassage 15B/15BR/15BU

Parallel Broadband Internet Router

networks@work

**Sharing Broadband Internet Access**

**Cable, xDSL, Direct Ethernet**

**Support USB ADSL Modem**

**Infinite Scalable Internet Bandwidth**

**Integrated 4-Port 10/100Mbps Switch**

**Virtual Servers**

**IP Packet Filtering**

Compex NetPassage 15B/BR/BU Broadband Internet Routers support external Cable/DSL modem or Direct Ethernet connection, enabling Internet sharing for up to 253 users with just one broadband Internet account. Designed with “Parallel Broadband” technology, an infinite number of NetPassage 15B series routers can be added to your network, providing virtually a combined aggregated bandwidth to the Internet. In addition, Virtual Servers and IP Packet Filtering may be implemented on NetPassage 15B series routers to facilitate hosting of Internet servers and provide administrative functions to the network administrators. NetPassage 15B series Broadband Internet Routers provide integrated solution for scalable high-speed Internet access.

### SHARING BROADBAND INTERNET

NetPassage 15B/15BR/15BU comes with an RJ45 Ethernet WAN port to be connected to external Cable/DSL modem or Direct Ethernet point. With Network Address Translation (NAT), these broadband routers enables Internet sharing with just one broadband Internet account.

### SUPPORT USB ADSL MODEM

While most broadband routers in the market support only ADSL modem with RJ45 Ethernet interface, Compex NetPassage 15BU provides a USB interface to support external USB ADSL modem for broadband Internet sharing.

### INTEGRATED SOLUTION

NetPassage 15B/BU is integrated with a 4-port 10/100Mbps Fast Ethernet Switch, providing an immediate Switched Ethernet solution for 4 users. With the internal auto-crossover mechanism, any LAN port of these broadband routers can easily be uplinked to other Hubs or Switches with a straight UTP cable, supporting up to 253 users in the network.

### PARALLEL BROADBAND

Not only does NetPassage 15B series routers provide Broadband Internet sharing but also scalable Internet bandwidth to suit your business need. When your network expands, multiple NetPassage 15B series routers can be added to your network, delivering virtually a combined aggregated bandwidth to the Internet.

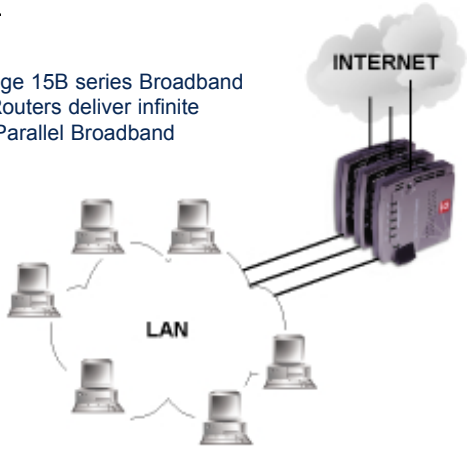



**Figure 1.**
NetPassage 15B series Broadband Internet Routers deliver infinite scalable Parallel Broadband

## BUILT-IN DHCP SERVER

The built-in DHCP Server of NetPassage 15B series Broadband Internet Routers makes the network setup a fast and easy process. Simply configure the computers to dynamically obtain IP addresses, and the DHCP Server will assign IP addresses, gateway and DNS information to the computers. In addition, these Broadband Routers support DHCP Reservation that reserves certain IP addresses for certain computers based on the MAC addresses of the network adapters.

## NETWORK ADDRESS TRANSLATOR (NAT)

With Network Address Translator (NAT), NetPassage 15B series Broadband Internet Routers provide a simple firewall between the private network and the Internet, protecting your network from the instruders.

## VIRTUAL SERVERS

Virtual Servers enables Internet servers, such as Web Server, Mail Server & etc, to be hosted in your private network. Two types of Virtual Servers are supported by NetPassage 15B series Broadband Internet Routers, IP-Forwarding and TCP/UDP Port-Forwarding.

## IP PACKET FILTERING

With IP Packet Filtering, administrative functions such as access control can be defined based on source IP address, TCP port and time. For certain time-based ADSL services, Time-based Internet Access Control may be implemented to minimize the monthly Internet charges.

## ROUTER'S CLOCK SYNCHRONIZATION

Unlike certain broadband Internet routers, NetPassage 15B series routers are designed with a clock that can be synchronized with the managing computer. The Router Clock may be used as a reference to facilitate the packet filtering functions. For example, Internet Access may be provided only during a certain period of time.

## WEB-BASED CONFIGURATION INTERFACE

NetPassage 15B series Broadband Internet Routers are integrated with HTTP Servers to facilitate the router configuration. Whether you are using Microsoft Windows, Macintosh or Unix, you can easily connect to the router with just a Web Browser, and complete the configuration process in just a few minutes via a user-friendly web-based configuration interface.

## CONFIGURATION BACKUP

Not only does NetPassage 15B series Broadband Internet Routers provide a user-friendly configuration

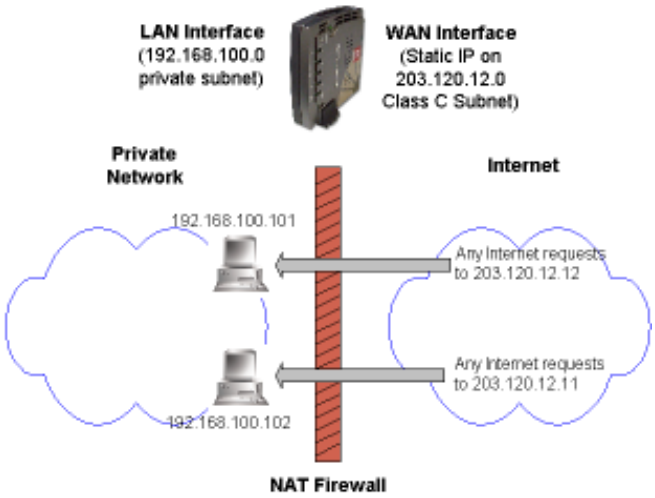



**Figure 2.**
In IP-Forwarding, any Internet request to a public IP address is forwarded to a specific computer in the private network regardless of the TCP/UDP port of the Internet request.

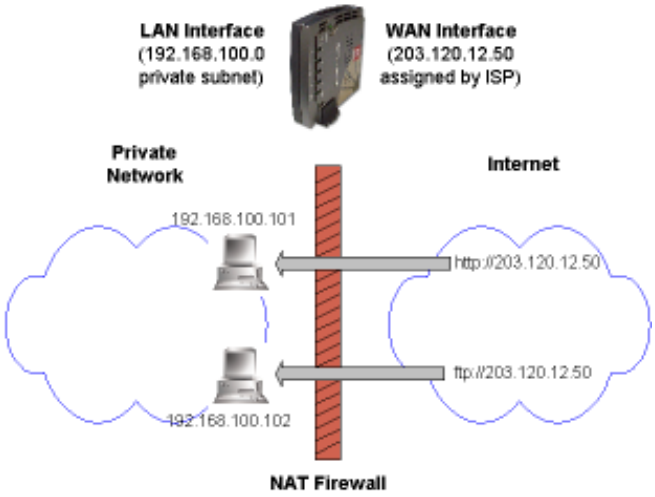



**Figure 3.**
In Port-Forwarding, the Internet request is forwarded to a specific computer in the private network based on the TCP/UDP port of the Internet request. In the above example, HTTP requests to the public IP address assigned by the ISP are forwarded to 192.168.100.101 whereas FTP requests are forwarded to 192.168.100.102.

interface but also the option to save the router settings into a backup file. If the router settings are accidentally cleared, it can easily be restored from the backup file.

## UPGRADEABLE FIRMWARE

To ensure continuous support that benefits the users, NetPassage 15B series Broadband Internet Routers have been designed with firmware upgrading capability. Future releases of firmware can easily be updated on the routers to support more features.

# applications

NetPassage 15B Series Broadband Internet Routers are designed with an RJ45 Ethernet WAN port to be connected to Cable modem, DSL modem or Direct Ethernet point, sharing a single broadband Internet account with up to 253 users. NetPassage 15BU comes with USB interface for connectivity to an USB ADSL modem.

Integrated with a 4-port 10/100Mbps Fast Ethernet Switch, NetPassage 15B/15BU provides an immediate solution for 4 users on their independent switching segment, as shown in Figure 4.

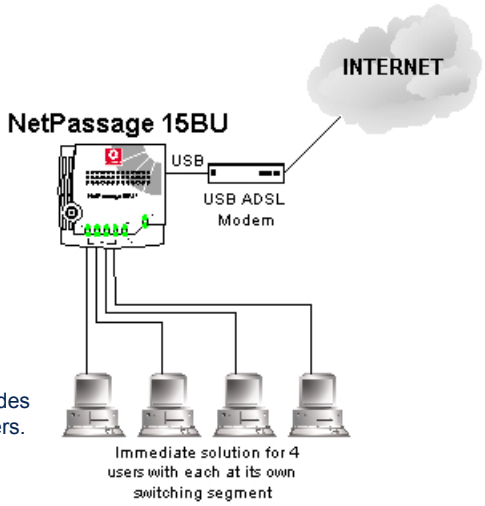



**Figure 4. (right)**
NetPassage 15B & 15BU provides an immediate solution for 4 users.

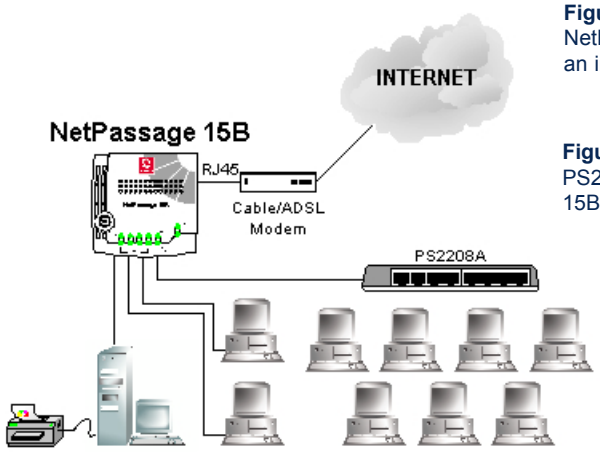


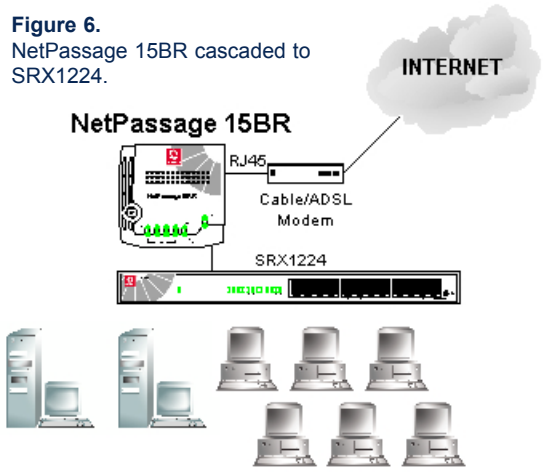

**Figure 5. (left)**
PS2208A cascaded to NetPassage 15B to support additional 7 users.

Additional Hubs or Switches may be cascaded to NetPassage 15B/BU to support more than 4 users in the small offices. The internal auto-crossover mechanism enables easy uplink with straight UTP cable, as shown in Figure 5.

NetPassage 15BR has an RJ45 10/100Mbps LAN port to be connected to the backbone. Figure 6 shows a unit of NetPassage 15BR cascaded to SRX1224 10/100Mbps Fast Ethernet Switch.

Certain ISPs provide the Internet Access via a Direct Ethernet RJ45 connection with a single or a range of Public IP addresses. NetPassage 15B series Broadband Internet Routers can be connected directly to the RJ45 Ethernet point and configure with a Static IP address.

**Figure 6.**
NetPassage 15BR cascaded to SRX1224.



# specifications

| | |
|---|---|
| **Model** | NetPassage 15B/15BR/15BU |
| **Industry Standards** | IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3x Flow Control<br>CE Mark, FCC Class A, Gost, C-Tick, UL |
| **WAN Interface** | One 10Mbps RJ45 Ethernet interface<br>One Type B USB port (NetPassage 15BU only) |
| **WAN Connection** | Dynamic IP, Static IP, PPP Over Ethernet (PPPoE), DANA RAS |
| **LAN Interface** | 4-port 10/100Mbps Fast Ethernet Switch (NetPassage 15B & 15BU)<br>One 10/100Mbps RJ45 LAN port (NetPassage 15BR only) |
| **Built-In DHCP Server** | Yes |
| **Bandwidth Scalability** | Via "Parallel Broadband" |
| **Auto-DNS** | Yes |
| **NAT Firewall** | Yes |
| **Private Network** | Classful or Classless Network |
| **IP Routing** | Dynamic & Static |
| **Routing Protocol** | RIP1, RIP2 |
| **Virtual Server** | Port Forwarding & IP Forwarding |
| **VPN Pass-Thru (PPTP)** | Yes |
| **NetMeeting** | Yes |
| **Access Control** | |
| **IP-based** | Yes |
| **TCP Port-based** | Yes |
| **Time-based** | Yes |
| **Clock Synchronization** | Yes |
| **Configuration Interface** | Web-based Configuration Interface |
| **Environmental Requirement** | |
| **Temperature** | Operating: 0° to 40°C<br>Storage: -20° to 70°C |
| **Humidity** | Operating: 10%RH to 80%RH<br>Storage: 5%RH to 90%RH |
| **Physical Dimensions** | 122mm x 119mm x 26mm (L x W x H) |